author and subject indexes 1982 volumes 679-721

BBA

Biochimica et Biophysica Acta

PUBLICATION SCHEDULE FOR 1982

BBA is published according to a volume-numbering scheme that embraces all sections of the journal. In addition, each regular section has its own sequential volume-numbering system, running parallel to the overall BBA scheme set out below.

	BIO-ENERGETICS	BIO-MEMBRANES	GENE STRUCTURE AND EXPRESSION	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY	LIPIDS AND LIPID METABOLISM	GENERAL SUBJECTS	MOLECULAR CELL RESEARCH
Jan.	679/1 = B58/1	684/1 = M95/1 684/2 = M95/2	696/1 = N1/1	700/1 = P1/1 700/2 = P1/2	710/1 = L58/1	714/1 = G96/1	
Feb.	679/2 = B58/2	685/1 = M96/1 685/2 = M96/2	696/2 = N1/2	701/1 = P2/1 701/2 = P2/2	710/2 = L58/2	714/2 = G96/2 714/3 = G96/3	720/1 = C1/1
March	679/3 = B58/3	685/3 = M96/3 686/1 = M97/1	696/3 = N1/3	701/3 = P2/3 702/1 = P3/1	710/3 = L58/3	715/1 = G97/1	720/2 = C1/2
April	680/1 = B59/1	686/2 = M97/2 687/1 = M98/1	697/1 = N2/1	702/2 = P3/2 703/1 = P4/1	711/1 = L59/1	715/2 = G97/2	
May	680/2 = B59/2	687/2 = M98/2 688/1 = M99/1	697/2 = N2/2	703/2 = P4/2 704/1 = P5/1	711/2 = L59/2	716/1 = G98/1 716/2 = G98/2	720/3 = C1/3
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July	681/1 = B60/1	689/1 = M100/1 689/2 = M100/2	698/1 = N3/1	705/1 = P6/1 705/2 = P6/2	712/1 = L60/1	717/1 = G99/1 717/2 = G99/2	721/1 = C2/1
Aug.	681/2 = B60/2	689/3 = M100/3 690/1 = M101/1	698/2 = N3/2	705/3 = P6/3 706/1 = P7/1	712/2 = L60/2	717/3 = G99/3	
Sept.	681/3 = B60/3	690/2 = M101/2 691/1 = M102/1	698/3 = N3/3	706/2 = P7/2 707/1 = P8/1	712/3 = L60/3	718/1 = G100/1 718/2 = G100/2	721/2 = C2/2
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Nov.	682/2 = B61/2	692/2 = M103/2 692/3 = M103/3	699/2 = N4/2	708/2 = P9/2 708/3 = P9/3	713/2 = L61/2	719/2 = G101/2	
Dec.	682/3 = B61/3	693/1 = M104/1 693/2 = M104/2	699/3 = N4/3	709/1 = P10/1 709/2 = P10/2	713/3 = L61/3	719/3 = G101/3	721/4 = C2/4
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The 1982 edition of this booklet, offering detailed guidance to authors, is available free of charge from the BBA Editorial Secretariat, P.O. Box 1345, 1000 BH Amsterdam, The Netherlands. It is also published as Biochim. Biophys. Acta 715 (1982) 1–23.

Biochimica et Biophysica Acta

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BIOCHIMICA ET BIOPHYSICA ACTA

INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND BIOPHYSICS

author and subject indexes

1982
volumes 679-721

ELSEVIER BIOMEDICAL PRESS
AMSTERDAM

Electronic data processing:
Büro für Satztechnik W. Meyer KG
Hanau
F.R.G.

© 1983, Elsevier Science Publishers
Printed in The Netherlands

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Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the 1982 Publication which can be found on the inside front cover of this index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index.

The Editors and Publishers welcome any comments on the usefulness of this index, together with suggestions for improvements.

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Adenosine derivative
Chromophore; Fluorescence; Adenosine deaminase; Adenylate kinase (Hiratsuka, T. (719) 509)

Adenosine kinase
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Adenosine metabolism
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***S*-Adenosylhomocysteine analog**
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Alcohol dehydrogenase; Inhibition (*D. melanogaster*) (Winberg, J.O. (704) 17)

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Amyloidosis
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Butylphenylguanine
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Carboxylesterase (Human pancreas) (Lombardo, D. (700) 75)

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Chloroplast biogenesis
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Chondroitin 6-sulfotransferase
Chondroitin 4-sulfotransferase (Chick embryo cartilage) (Habuchi, O. (717) 414)

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Chylomicron hydrolysis
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$[Co(NH_3)_6]^{3+}$
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Cytochrome b_6-f complex
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DDT
DDE; Insecticide; Ion transport (Wolff, D. (688) 138)

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spacer DNA
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Dopachrome
L-Dopa; Melanization (Garcia-Carmona, F. (717) 124)

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Subunit structure (*Eisenia fetida*) (Frossard, P. (704) 535)

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17β-Hydroxysteroid; 17-Oxosteroid; Estradiol; Hydrogen transfer; Steroid sulfate (Cronholm, T. (711) 159)

Microsome; Mitochondria; Phospholipid (Rat liver) (Cunningham, C.C. (712) 225)

Choline oxidase; Development (Rat) (Thompson, J.A. (719) 580)

Ethanol consumption
Antimycin inhibition; Mitochondrial function (Rat hepatocyte) (Thayer, W.S. (721) 328)

Ethanol metabolism
Glycerophospholipid (Rat) (Curstedt, T. (713) 589)

Ether analog; Phospholipid; Hydrogen transfer; Stereospecificity (Rat) (Curstedt, T. (713) 602)

Ether analog
Ethanol metabolism; Phospholipid; Hydrogen transfer; Stereospecificity (Rat) (Curstedt, T. (713) 602)

Ether-linked lipid
Diradylglycerol cholinephosphotransferase (Rat liver microsome) (Lee, T.-C. (713) 479)

Ether lipid
Platelet-activating factor; Acetyl-transferase (Murine peritoneal macrophage) (Ninio, E. (710) 23)

Enzyme specificity; Homologous alcohol; Octadecenol; Wax ester (Mammalian cell) (Weber, N. (711) 197)

Concanavalin A (Tumor cell) (Fallani, A. (711) 208)

Development; Phospholipid composition (Chick ventricle) (Nakagawa, Y. (712) 667)

Ether lipid level
Choline metabolism; Growth depression (L-M cell) (Cabot, M.C. (713) 16)

Ether phospholipid
Glycerophosphocholine; Alkylacyl derivative (Leukocyte, Macrophage) (Sugiura, T. (712) 515)

Ethidium bromide binding
RNA conformation; virus RNA; Coat protein; Circular dichroism (Alfalfa mosaic virus) (Srinivasan, S. (696) 260)

Ethionine
Ribosomal subunit; Protein synthesis; Initiation factor; Globin mRNA (Rat liver) (Takahashi, Y. (697) 101)

Ethionine induction
Translation; Protein synthesis inhibitor; Initiation (Rat liver) (Hase, M. (698) 102)

Ethylidene-D-glucose
Propyl-D-glucoside; Sugar transport; Sidedness (Rat adipocyte) (Holman, G.D. (685) 78)

***N*-Ethylmaleimide**
Sugar transport; Sulfhydryl reagent; Chloromercuribenzene sulfonate; Dinitrophenol (Rat soleus muscle) (Kozka, I.J. (689) 210)

Amino acid transport; Membrane protein; Sulfhydryl group (Liver cell culture) (Takadera, T. (691) 293)

Choriogonadotropin; Ca^{2+}; Receptor binding (Rat testis) (Kellokumpu, S. (718) 26)

Ethyl oleate
Plasma clearance; LDL; Lipoprotein uptake; Reticuloendothelial system; Chemical modification (Rabbit) (Packard, C.J. (712) 412)

Etiocholanolone
Steroid action; δ-Aminolevulinic acid synthase; Enzyme induction; Diethylaminoethyl-diphenylvalerate HCl (Chick embryo liver cell) (Lane, S.E. (716) 117)

Evolution
C-reactive protein; Amyloid P; Protein homology (Teleost, Human) (Pepys, M.B. (704) 123)

Lens protein; N-terminal sequence; Crystallin (Squid) (Siezen, R.J. (704) 304)

Pyruvate kinase isozyme; Peptide mapping (Saheki, S. (704) 494)

RNAase; Amino acid sequence (Rodent pancreas) (Beintema, J.J. (705) 102)

Post-translational modification; Carbonic anhydrase; Amino acid sequence (Wallaby) (Jones, G.L. (709) 284)

Exchange diffusion
Amino acid transport; Na^+ dependence (Human erythrocyte) (Al-Saleh, E.A. (684) 157)

Exchange interaction
Redox property; Iron-sulfur protein; Ferredoxin (Bertrand, P. (680) 331)

Exchange protein
Phospholipid exchange; Lipid bilayer vesicle; Phase transition; Flow cytometry; Electron microscopy (Xü, Y.H. (689) 437)

Exchange rate
Mg-ATP (Misawa, K. (718) 227)

Excitation
Photosynthesis; Chlorophyll *a* fluorescence; Photosystem II; Light-harvesting system (Zea mays leaf) (Hirsch, J. (681) 15)

Excitation annihilation
Oxygen flash yield; Photosystem II (*C. vulgaris*) (Ley, A.C. (680) 174)

Excitation energy transfer
Fluorescence quenching; Chlorophyll; Proton gradient (Chlorella, Spinach chloroplast) (Krause, G.H. (679) 116)

Excitation spectrum
Fluorescence; Magnetic field; Bacterial photosynthesis; Pigment-protein complex (Prosthecochloris aestuarii) (Kramer, H.J.M. (681) 359)

Excitation transfer
Photoconversion kinetics; Mg^{2+}; Photosynthesis; Chlorophyll fluorescence (Pea chloroplast) (Melis, A. (682) 1)

Fluorescence decay; Photon counting (Barley chloroplast) (Gulotty, R.J. (682) 322)

Photosynthesis; Fluorescence kinetics; Mg^{2+} (Spinach chloroplast) (Nairn, J.A. (682) 420)

Exhaled air
Glutathione peroxidase; Alkane; Selenium; Lipid peroxidation (Rat) (Kivits, G.A.A. (719) 329)

Exocytosis
Chromaffin granule; Osmotic pressure; NMR; Core structure; Osmometer (Südhof, T.C. (684) 27)

α-Granule protein; Protein secretion (Human platelet) (Gogstad, G.O. (702) 81)

Secretion protein; Estramustine; Pulse labeling (Rat ventral prostate) (Haaparanta, T. (716) 79)

Exo-oligoglucosidase
α-Glucosidase; Glucose derivative (*B. cereus*) (Suzuki, Y. (704) 476)

Extrahepatic metabolism
Cholesterol synthesis; Cholesterol ester; Lipoprotein uptake (Rabbit liver) (Andersen, J.M. (711) 421)

Extreme halophile
Polar lipid; Glycolipid sulfate (Halobacterium) (Kushwaha, S.C. (711) 19)

Eye-derived growth factor
Glycosaminoglycan synthesis; Glycopeptide synthesis (Bovine lens epithelia) (Moczar, E. (719) 396)

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F^- effect
Ca^{2+} transport; Phosphatidylserine mediation (Yaari, A.M. (686) 1)

Fab fragment
Immunoglobulin M; Hemolysis; Cell surface (Porcine erythrocyte) (Beale, D. (704) 156)

Triacylglycerol hydrolysis; Triacylglycerol-rich lipoprotein; Antibody; γ-Globulin inhibition; Lipoprotein lipase (Bovine milk) (Shirai, K. (712) 10)

Facilitated diffusion
Uncoupler; Sorbose uptake; Sugar transport (*S. cerevisiae*) (Van den Broek, P.J.A. (689) 429)

Factor H
Circular dichroism; Secondary structure; Complement (Human) (Discipio, R.G. (709) 58)

Factor V
Immunoassay; Blood clotting (Bovine plasma) (Ittyerah, T.R. (714) 524)

Factor Xa inhibition
Proteinase inhibitor (Human plasma) (Ellis, V. (701) 24)

Factor 4
Basic protein; β-Thromboglobulin (Human platelet) (Varma, K.G. (701) 7)

Fanconi's anemia
DNA crosslink; DNA repair; Mitomycin C; Xeroderma pigmentosum (Human) (Fujiwara, Y. (699) 217)

Farber's disease
Lysosome abnormality; Ceramide accumulation (Human fibroblast) (Chen, W.W. (718) 185)

Fast-to-slow transformation
Phosphodiester; ^{31}P-NMR (Muscle) (Burt, C.T. (721) 492)

Fat globule membrane
Phase transition; Endotherm; Differential scanning calorimetry (Bovine milk) (Appell, K.C. (690) 243)

Fatty acid
Covalent binding; Membrane protein; Erythrocyte; Polymorphonuclear leukocyte (Man, Rat) (Marinetti, G.V. (685) 109)

L_β-H_{II} transition; Hexagonal phase; ^{31}P-NMR; Phosphatidylethanolamine; X-ray diffraction (Marsh, D. (690) 117)

Nystatin; Lipid composition; Lipid structure; Polyene antibiotic (*C. tropicalis*) (Danilenko, I.I. (691) 201)

Enzyme modification; Proteinase susceptibility; Glucose-6-phosphate dehydrogenase; Phosphoglycerate kinase; Alcohol dehydrogenase (Yeast) (Burlini, N. (708) 225)

Differentiation; Cell migration; Lipophilic region; Glycosphingolipid (Rat small intestine) (Breimer, M.E. (710) 415)

Hydrocarbon (Blue-green alga) (Smith Goodloe, R. (710) 485)

Palmitate oxidation; Development; Mitochondrial enzyme (Rat muscle) (Glatz, J.F.C. (711) 327)

Phospholipase A_2 activation; Methylation (Human red cell membrane) (Engelsen, S.J. (711) 515)

Cytochrome *p*-450; Lipid peroxidation (Rabbit liver microsome) (Tien, M. (712) 1)

Gallstone; Phospholipid; Phosphatidylcholine; Lipid composition (Robins, S.J. (712) 21)

Chain elongation; Desaturation; Docosahexaenoate; Eicosapentaenoate; Phosphatidic acid; Phospholipid (Rat retina) (Bazan, H.E.P. (712) 123)

Glyceride-glycerol; Lipid metabolism; Lipid precursor; 3-Mercaptopicolinic acid (Bovine adipose tissue) (Smith, S.B. (712) 365)

Galactolipid synthesis; Plant lipid (*Brassica napus*) (Williams, J.P. (713) 177)

Acylglycerol; Glycerophospholipid; Lipid synthesis (Masuzawa, Y. (713) 185)

Lipid; Cerebroside; Sphingomyelin; Glycolipid analysis; TLC; Scintillation quenching (Radin, N.S. (713) 474)

Stearoyl-CoA desaturation; Lipid metabolism; Clofibrate (Rat liver) (Kawashima, Y. (713) 622)

Lipid peroxidation; Lipolysis; Adrenalin; Arachidonic acid (Kidney cortex) (Fujimoto, Y. (713) 688)

AMP deaminase; Phosphofructokinase; Energy charge (Yeast) (Yoshino, M. (719) 474)

***trans* Fatty acid**
Nerve lipid; Phospholipid; Polyunsaturated fatty acid; Isomeric octadecenoic acid (Rat) (Lawson, L.D. (712) 117)

Fatty acid-binding protein
Fatty acid uptake; Esterification (Adipose tissue) (Haq, R.-U. (713) 193)

Fatty acid chain
Gramicidin; Hexagonal H_{II} phase; Phosphatidylcholine; Non-bilayer structure; Model membrane; ^{31}P-NMR (Van Echteld, C.J.A. (692) 126)

Fatty acid composition
Membrane fluidity; Temperature acclimation; Thylakoid membrane (*Nerium oleander*) (Raison, J.K. (688) 218)

Phosphatidylserine; Nitrate induction (Rat erythrocyte membrane) (Kaya, K. (688) 305)

Phospholipid charge; Transfer protein; Phosphatidylcholine (Bovine brain) (Zborowski, J. (688) 381)

End-product inhibition; Membrane adaptation; Ethanol; Membrane lipid (*Cl. thermocellum*) (Herrero, A.A. (693) 195)

Branched chain; Mycosanoic acid (*M. aurum*) (Rafidinarivo, E. (711) 266)

Phospholipid; C_{17} hydroxy acid (*Ectothiorhodospira*) (Asselineau, J. (712) 111)

Phosphatidic acid; Docosahexaenoate; Glycerol metabolism (Photoreceptor membrane) (Bazan, N.G. (712) 702)

Phosphatidylinositol; Lipoprotein (Human plasma) (Breckenridge, W.C. (712) 707)

Fatty acid deficiency
Vitamin D; Ca^{2+} transport; Membrane fluidity; Spin label (Chicken intestine) (Putkey, J.A. (688) 177)

Fatty acid desaturase
Phosphatidylcholine; Phosphatidylethanolamine; Temperature adaptation; Sterol metabolism (*N. crassa*) (Johnston, A.M. (713) 512)

Fatty acid desaturation
Lipid synthesis; Molecular species (*A. variabilis*) (Sato, N. (710) 279)

Δ^9-Desaturase; Δ^{12}-Desaturase (Neurospora microsome) (Gabrielides, C. (712) 505)

Fatty acid incorporation
Bacterial membrane; Fluorescent probe; Anthrylnonanoic acid (*M. luteus*) (Welby, M. (689) 173)

Phospholipid; Transformation (Hamster fibroblast) (Maziere, C. (712) 712)

Fatty acid inhibition
Ca^{2+} transport; Oleic acid; Stearic acid (Rabbit skeletal muscle) (Katz, A.M. (687) 17)

Fatty acid interaction
Prostaglandin synthesis; Lipoxygenase; Oxygenation (Human platelet) (Boukhchache, D. (713) 386)

Fatty acid metabolism
White muscle; Red muscle; Free fatty acid (Rat) (Okano, G. (710) 122)

Triiodothyronine; Carnitine palmitoyltransferase; Malonyl-CoA (Rat hepatocyte mitochondria) (Stakkestad, J.A. (711) 90)

Fatty acid transport; Fluorescent derivative (Leukemic myeloid cell) (Morand, O. (711) 539)

Fatty acid oxidation
Malonyl-CoA; Starvation (Muscle, Liver mitochondria) (Veerkamp, J.H. (710) 252)

Peroxisome; Sedimentation coefficient; Buoyant density; Mitochondria (Brown adipose tissue) (Normann, P.T. (712) 621)

Fatty acid recycling
Phosphatidylglycerol; Phospholipid metabolism (*E. coli*) (Joseleau-Petit, D. (711) 1)

Fatty acid specificity
CDPdiacylglycerol synthesis; Phospholipid; Phosphatidyltransferase; Diacylglycerol synthesis (Murthy, P.P.N. (712) 473)

Fatty acid substitution
Lipid composition; ESR (Plasma membrane) (Poon, R. (689) 230)

Fatty acid supplementation
Membrane lipid dynamics; Cation permeability; Membrane potential; Fluorescent probe (Mouse neuroblastoma cell) (Boonstra, J. (692) 321)

***trans* Fatty acid supplementation**
Fatty alcohol; Elaidic acid (L-M cell) (Lee, T.-C. (712) 299)

Fatty acid synthesis
Pulmonary surfactant; Development (Rat lung) (Maniscalco, W.M. (711) 49)

Development (Plant seed) (Slabas, A.R. (711) 411)

Fatty acid synthetase; Polypeptide chain; Dinoflagellate (*Crypthecodinium cohnii*) (Sonnenborn, U. (712) 523)

Pyruvate dehydrogenase; Insulin (Rat hepatocyte) (Assimacopoulos-Jeannet, F. (717) 86)

Fatty acid synthetase
mRNA purification (Rat liver) (Adachi, K. (697) 295)

Subunit composition; Electron microscopy; Cross-linking (Morishima, N. (708) 305)

Polyunsaturated fatty acid; Dietary fat (Mouse liver) (Schwartz, R.S. (711) 316)

myo-Inositol deficiency; Acetyl-CoA carboxylase (Rat liver) (Beach, D.C. (711) 452)

Lipid synthesis; Acetyl-CoA carboxyl (Human breast cell line) (Thompson, B.J. (712) 217)

Fatty acid synthesis; Polypeptide chain; Dinoflagellate (*Crypthecodinium cohnii*) (Sonnenborn, U. (712) 523)

Acyl carrier protein; Proteolysis; 4'-Phosphopantetheine; Elastase (Pigeon liver) (Puri, R.N. (712) 576)

Proteolysis; Thioesterase (Pigeon liver) (Puri, R.N. (713) 29)

Protein synthesis; Pregnancy; Lactation; Pyruvate dehydrogenase (Adipose tissue) (Sinnett-Smith, P.A. (714) 58)

Fatty acid transport
Albumin; Temperature dependence; Metabolic inhibitor; Cell culture (Leukemic myeloid cell) (Morand, O. (693) 143)

Fatty acid metabolism; Fluorescent derivative (Leukemic myeloid cell) (Morand, O. (711) 539)

Fatty acid uptake
Membrane permeability; Phospholipid synthesis; X-ray irradiation; Tumor (Mouse spleen) (Fonck, K. (692) 406)

Fatty acid-binding protein; Esterification (Adipose tissue) (Haq, R.-U. (713) 193)

Fatty alcohol
trans Fatty acid supplementation; Elaidic acid (L-M cell) (Lee, T.-C. (712) 299)

FDMR
Bacterial photosynthesis; Reaction center; Bacteriochlorophyll fluorescence (Rps. sphaeroides) (Den Blanken, H.J. (681) 375)

Fe^{2+}
Magnetic circular dichroism; High-spin; Heme electronic state; Hemoprotein structure; Ligand-binding; Photolysis (Sharonov, Yu. A. (709) 332)

Dithiothreitol; Autooxidation (Lambeth, D.O. (719) 501)

Fe^{2+} content
Proline 4-hydroxylase; Enzyme activation (De Jong, L. (709) 142)

Fe(II)
Ferrochelatase kinetics; Zn(II); Porphyrin (Yeast mitochondria) (Camadro, J.-M. (707) 280)

Fe-porphyrin
Hemoglobin; Metalloprotein; Reconstituted dimer (*Scapharca*) (Verzili, D. (704) 215)

Fe protein
Metalloprotein (*D. gigas*) (Smith, A.K. (719) 606)

Fecal sterol
Quantitative analysis; Sterol isotope (Rat, Human) (Ferezou, J. (713) 678)

Ferredoxin
ESR; Redox potential; Iron-sulfur protein (*D. desulfuricans*) (Guerlesquin, F. (679) 422)

Electron-transfer rate; $NADP^{\cdot}$ radical; Ferredoxin-$NADP^{+}$ reductase (Maskiewicz, R. (680) 297)

Exchange interaction; Redox property; Iron-sulfur protein (Bertrand, P. (680) 331)

Iron-sulfur protein; Chromium complex; Cobalt complex (Cl. pasteurianum) (Armstrong, F.A. (681) 161)

Bacterial photosynthesis; Nitrogenase activity (Rps. capsulata) (Hallenbeck, P.C. (681) 168)

Ferredoxin-NADP$^+$ reductase; Steady-state kinetics; Redox reaction (Masaki, R. (700) 101)

Rhodanese; Sulfide insertion; Iron-sulfur protein; Sulfur transfer (Pagani, S. (700) 154)

ESR; Line shape; Spin-lattice relaxation; Iron-sulfur protein (Hagen, W.R. (702) 61)

Ferredoxin-NADP$^+$ reductase
Electron-transfer rate; NADP· radical; Ferredoxin (Maskiewicz, R. (680) 297)

Enzyme reconstitution; Rotational mobility (Thylakoid membrane) (Wagner, R. (680) 317)

Sulfhydryl group; Protein modification; Flavoprotein; Diaphorase (Spinach chloroplast) (Valle, E.M. (681) 412)

Steady-state kinetics; Redox reaction; Ferredoxin (Masaki, R. (700) 101)

Ferredoxin reduction
Electron-transfer kinetics; Chronoamperometry; Pulse polarography; Rotating-disk voltammetry (Spinach) (Dasgupta, S.R. (680) 242)

Ferric cyanide complex
Heme protein; ^{1}H-NMR; Imidazole hydrogen bonding; Cytochrome *c* peroxidase; Peroxidase (La Mar, G.N. (708) 317)

Ferric derivative
Erythrocruorin; Heme ligand; ESR (Earthworm) (Desideri, A. (708) 1)

Ferrichrome
Siderophore synthesis; Iron transport (*U. sphaerogena*) (Ecker, D.J. (720) 242)

Ferrichrome-iron
Receptor binding; Metalloprotein receptor; Antigenicity (*E. coli*) (Coulton, J.W. (717) 154)

Ferric ion
Phospholipid; Lipid peroxidation; Adriamycin; ADP (Sugioka, K. (713) 333)

Ferric sulfhemoglobin
Ligand binding; Hemoglobin derivative; Stopped flow; Metalloprotein (Brittain, T. (705) 26)

Ferritin
Bacterioferritin; Cytochrome *b*; Phytoferritin; Affinity chromatography (*Azobacter chroococcum*) (Chen, M. (707) 1)

Iron uptake; Oxidation; Crystal growth model (Goldner, B.G. (719) 641)

Iron storage; Mössbauer spectroscopy (Cultured cell) (Bauminger, E.R. (720) 133)

Ferritin-binding site
Heme synthesis; Iron mobilization (Mitochondria) (Ulvik, R.J. (715) 42)

Ferrochelatase kinetics
Zn(II); Fe(II); Porphyrin (Yeast mitochondria) (Camadro, J.-M. (707) 280)

Fetal hemoglobin
Gestation (Mouse) (Zucker, R.M. (703) 212)

α-Fetoprotein synthesis
Regeneration; Albumin synthesis; Fibrinogen synthesis; mRNA (Rat liver) (Princen, H.M.G. (699) 121)

Albumin synthesis; Fibrinogen synthesis; mRNA sequence; Carcinogenesis (Rat) (Selten, G.C.M. (699) 131)

Fetuin
Carbohydrate transfer; Cell surface (Carrot embryo protoplast) (Warren, G.S. (691) 125)

Fiber orientation
Compression; X-ray diffraction; Collagen (Intervertebral disc) (Klein, J.A. (717) 61)

Collagen structure; Stress; X-ray diffraction (Annulus fibrosus) (Klein, J.A. (719) 98)

Fibril stabilization
Collagen; Proteoglycan; Glycosaminoglycan; Heat stability (Snowden, J.M. (703) 21)

Fibrin
Plasminogen activator; Affinity chromatography; Structural variant (Pig) (Wallén, P. (719) 318)

Fibrin fragment
Fibrinogen; Plasma clearance (Mouse) (Pizzo, S.V. (718) 177)

Fibrinogen
A*α* chain; Ca^{2+} binding (Human) (Marguerie, G. (701) 410)

Radioimmunoassay; Glycoprotein assay (Dog liver) (Kudryk, B. (703) 77)

α_2-Plasmin inhibitor; Fibrin stabilization; Cross-linking (Ichinose, A. (706) 158)

Ca^{2+} binding; Anticoagulant (Nieuwenhuizen, W. (707) 190)

Ca^{2+}-binding site; Anticoagulant; Plasmin fragment (Nieuwenhuizen, W. (708) 313)

Fibrin fragment; Plasma clearance (Mouse) (Pizzo, S.V. (718) 177)

Fibrinogen binding
Membrane receptor (Pig platelet) (Cierniewski, C.S. (714) 543)

Fibrinogen gel
Cell surface; Polysaccharide (*Staphylococcus*) (Usui, Y. (719) 539)

Fibrinogenolysis
Fibrinolysis; Plasmin; Protease (Ney, K.A. (708) 218)

Fibrinogen structure
Zinc binding; Histidine residue (Scully, M.F. (700) 130)

Fibrinogen synthesis
Regeneration; Albumin synthesis; α-Fetoprotein synthesis; mRNA (Rat liver) (Princen, H.M.G. (699) 121)

α-Fetoprotein synthesis; Albumin synthesis; mRNA sequence; Carcinogenesis (Rat) (Selten, G.C.M. (699) 131)

Fibrinolysis
Fibrinogenolysis; Plasmin; Protease (Ney, K.A. (708) 218)

Fibrin stabilization
α_2-Plasmin inhibitor; Fibrinogen; Cross-linking (Ichinose, A. (706) 158)

Fibroblast
Cholesterol exchange; Phosphatidylcholine vesicle; Cholesterol synthesis (Human skin) (Poznansky, M.J. (685) 182)

Cell adhesion; Glycoprotein; Glycosaminoglycan; Focal adhesion (Bayley, S.A. (689) 351)

Glucuronidase; Lymphocyte; Cell-cell interaction (Dean, M.F. (721) 441)

Fibrogenic factor
Collagen; Fibrosis; Carbon tetrachloride damage (Rat liver) (Hatahara, T. (716) 377)

Fibronectin
Monoclonal antibody; Immunochemistry (Kavinsky, C.J. (705) 330)

Monoclonal antibody (Rat plasma) (Hasty, D.L. (709) 318)

Glycosaminoglycan; Collagen; Carbohydrate-protein interaction (Stamatoglou, S.C. (719) 90)

Fibronectin purification
Gelatin column (Agin, P.P. (716) 443)

Fibrosis
Collagen; Fibrogenic factor; Carbon tetrachloride damage (Rat liver) (Hatahara, T. (716) 377)

Ficoll gradient centrifugation
Nuclear membrane isolation; Nuclease digestion; High-salt treatment; Electron microscopy (*S. cerevisiae*) (Mann, K. (687) 57)

Filipin
Plasma membrane vesicle; $(Na^+ + K^+)$-ATPase; Cholesterol probe; Freeze-fracture (Rat liver) (Sips, H.J. (692) 447)

HDL; Cholesterol organization; Apolipoprotein; Cholesterol interaction (Blau, L. (712) 437)

Fish disease
Cell surface protein; Autoagglutination; Bacterial antigen; Cell envelope protein (*Aeromonas salmonicida*) (Evenberg, D. (684) 241)

Cell envelope protein; Bacterial antigen; Amino acid composition (*Aeromonas salmonicida*) (Evenberg, D. (684) 249)

Flash absorption spectroscopy
Carotenoid radical cation; Photosystem II; Electron transfer; Tetraphenylboron (Schenck, C.C. (680) 216)

Flash photolysis
Electron transfer; Cytochrome *c* oxidase; Redox center (Boelens, R. (682) 264)

Flavin
Azoreduction stimulation; Amaranth; Cytochrome *P*-450 (Rat liver microsome) (Fujita, S. (719) 178)

Flavin dependence
α-Glycerophosphate dehydrogenase; Electron transport (*C. utilis*) (Halsey, Y.D. (682) 387)

Flavin enzyme
Glycollate oxidase; Hydroxybutynoate inhibition; Stereospecificity; Suicide inhibition (*P. sativum*) (Fendrich, G. (702) 242)

Flavoprotein
Ferredoxin-$NADP^+$ reductase; Sulfhydryl group; Protein modification; Diaphorase (Spinach chloroplast) (Valle, E.M. (681) 412)

Flow cytometry
Phospholipid exchange; Exchange protein; Lipid bilayer vesicle; Phase transition; Electron microscopy (Xü, Y.H. (689) 437)

Fluctuation analysis
Epithelial transport; Development; Amiloride; Na^+ channel; Short-circuit current (*Rana catesbaiana*) (Hillyard, S.D. (692) 455)

Flufenamic acid
Anion transport; Cl^- transport; Band 3 protein; Proteolysis; Binding site (Human erythrocyte) (Cousin, J.-L. (687) 147)

Anion transport; Cl^- transport; Structure-activity relationship; Band 3 protein (Human erythrocyte) (Cousin, J.-L. (687) 156)

Fluidity
Erythrocyte membrane; Low temperature; ^2H-NMR (Human) (Maraviglia, B. (686) 137)

Phospholipid methylation; Transport (Brush border membrane) (Chauhan, V.P.S. (688) 357)

Lipid analysis; Plasma membrane; Membrane vesicle; Membrane shedding; Fluorescence polarization (Van Blitterswijk, W.J. (688) 495)

Phosphatidylethanolamine methylation; Periodate-oxidized adenosine; Phospholipid composition; Reconstitution (Mouse liver microsome) (Boyle, D.M. (688) 667)

Fluid phase activation
Complement component; C1r; Affinity chromatography (Villiers, C.L. (700) 118)

Fluorescein transport
Organic acid; Acetate effect; $(Na^+ + K^+)$--ATPase; Active transport (Frog kidney) (Nikiforov, A.A. (686) 36)

Fluorescence
Bicarbonate effect; Chlorophyll *a*; Photosystem II; Dichlorophenyldimethylurea (Vermaas, W.F.J. (680) 202)

Membrane protein phosphorylation; Reaction center; Photosystem II (Chloroplast membrane) (Kyle, D.J. (680) 336)

Excitation spectrum; Magnetic field; Bacterial photosynthesis; Pigment-protein complex (Prosthecochloris aestuarii) (Kramer, H.J.M. (681) 359)

Photosynthesis; Energy transfer; Chlorophyll-protein complex; Photon counting; Light-harvesting complex (Lotshaw, W.T. (682) 75)

Photosystem II; Electron transfer (Pea chloroplast) (Boussac, A. (682) 281)

Cholesterol analog; Small unilamellar vesicle; Membrane modification; Hydrophilic spacer (Rando, R.R. (684) 12)

Inside-out vesicle; Calmodulin; Ca^{2+} transport; Chlortetracycline (Human erythrocyte membrane) (Gimble, J.M. (685) 253)

Membrane structure; Order parameter; ω-Cyclohexyl fatty acid (Acido-thermophilic bacteria) (Sunamoto, J. (685) 283)

Pressure dependence; Pyrene excimer (Human erythrocyte membrane) (Flamm, M. (687) 101)

Thermal transition; Diphenylhexatriene; Protein-lipid interaction; Sulfhydryl reactivity (Porcine intestine brush border) (Ohyashiki, T. (688) 16)

Ca^{2+}-ATPase; Ca^{2+} binding; Low temperature (Sarcoplasmic reticulum, Rabbit muscle) (Dupont, Y. (688) 75)

Pyrene probe; Membrane structure (Human erythrocyte) (Zachariasse, K.A. (688) 323)

Melittin; Phosphatidylcholine; Protein-lipid interaction; Tryptophan residue; Emission anisotropy (Georghiou, S. (688) 441)

Phosphatidylcholine; Phosphatidylglycerol; Phospholipid mixing (El Mashak, E.M. (688) 465)

Virus capping; Membrane structure; Mycoplasma cell (Haberer, K. (688) 720)

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Fucosidosis
α-L-Fucosidase; Radioimmunoassay (Andrews-Smith, G.L. (715) 90)

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Guanine analog
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Guanosine
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Dimethyl adipimidate; Chemical modification (Pennathur-Das, R. (706) 80)

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Hemopexin
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Herbicide resistance
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12-HETE
Lipoxygenase; 5-HETE (Mastocytoma cell) (Koshihara, Y. (712) 42)

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5-Hydroxytryptophan
5-Hydroxytryptamine; $^{86}Rb^+$ efflux (Pancreatic islet) (Lindström, P. (720) 400)

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Initiation complex
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Stimulus-secretion coupling; Ba^{2+} accumulation (Pancreatic β-cell) (Berggren, P.-O. (720) 320)

Insulin sensitivity
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Insulin stimulation
Malic enzyme; Regulation mechanism (Rat liver) (Thompson, E.W. (718) 224)

Insulin treatment
Liposome encapsulation; Diabetes (Dog) (Patel, H.M. (716) 188)

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Integral protein
Lateral diffusion; Lipid bilayer; Theoretical model; Monte Carlo study (Pink, D.A. (687) 42)

Intercalated disc
Subcellular fractionation; Plasma membrane; Intercellular junction (Mouse cardiac muscle) (Colaco, C.A.L.S. (684) 40)

Intercalating agent
Ellipticine; DNA break; DNA-protein complex (L1210 mouse leukemic cell) (Filipski, J. (698) 280)

Intercellular junction
Subcellular fractionation; Plasma membrane; Intercalated disc (Mouse cardiac muscle) (Colaco, C.A.L.S. (684) 40)

Interfaced free energy
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Interferon
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Interferon synthesis
Protein synthesis; Butyrate; Bromodeoxyuridine; Virus induction (Human lymphoblast) (Shuttleworth, J. (698) 1)

Interlamellar water
Phosphatidylcholine-water system; Bilayer; Dipalmitoylphosphatidylcholine; Phase transition; Differential scanning calorimetry (Kodama, M. (689) 567)

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Mixed disulfide formation; Paraquat (Rat lung) (Keeling, P.L. (716) 249)

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Internalization
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Ru(III)$(NH_3)_5$-histidine complex; Fluorescence quenching; Energy transfer; Proteinase; Lysozyme (Recchia, J. (702) 105)

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Lipoprotein X; Triacylglycerol transport; Lipoprotein level; Nutrition (Human serum) (Untracht, S.H. (711) 176)

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$(Na^+ + K^+)$-ATPase; Fluorescence labeling (Dog kidney) (Kapakos, J.G. (693) 493)

Iodoacetate
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Ion concentration
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Ion exchange
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Ion-exchange chromatography
Histone H1; Amino acid sequence (Sea urchin sperm) (Strickland, W.N. (703) 95)

Ion flux
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Cytochrome c_1; Redox agent; Redox kinetics (König, B.W. (681) 54)

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Sulfite reductase; Sulfhydryl group; Enzyme dissociation; Circular dichroism (Yeast) (Kobayashi, K. (709) 46)

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Ionophore A23187
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Protein phosphorylation; Ca^{2+}; Sickle cell (Erythrocyte) (Johnson, R.M. (692) 218)

$^{45}Ca^{2+}$ permeability; Ca^{2+} buffering (Human erythrocyte) (Simonsen, L.O. (692) 431)

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Protein phosphorylation; Platelet secretion; Ca^{2+} antagonist; Thrombin stimulation (Human) (Wallace, W.C. (721) 164)

Ionophore selectivity
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Ionophore stimulation
K^+ transport; K^+ channel; Adrenalin stimulation; Ca^{2+} dependence; Monolayer; α-Adrenergic receptor (Cultured epithelium) (Brown, C.D.A. (690) 95)

Ionophore X537A
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Ion transport
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Uteroferrin; Copper; Molecular weight (Buhi, W.C. (701) 32)

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Iron deficiency
Iron-sulfur protein; Respiratory chain; ESR; Oxidative phosphorylation (Skeletal muscle mitochondria) (Maguire, J.J. (679) 210)

Iron exchange
Transferrin; Iron-binding site (Rat) (Young, S.P. (718) 35)

Iron metabolism
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Succinylacetone; Heme synthesis (Rabbit reticulocyte) (Ponka, P. (720) 96)

Iron mobilization
Ferritin-binding site; Heme synthesis (Mitochondria) (Ulvik, R.J. (715) 42)

Metallothionein; Iron binding (Kojima, N. (716) 273)

Iron release kinetics
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Iron source
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Iron storage
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Photosystem I; Temperature effect; ESR; Photoreduction; Reaction center (Spinach chloroplast) (Chamorovsky, S.K. (679) 146)

Respiratory chain; ESR; Iron deficiency; Oxidative phosphorylation (Skeletal muscle mitochondria) (Maguire, J.J. (679) 210)

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Exchange interaction; Redox property; Ferredoxin (Bertrand, P. (680) 331)

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Hydrogenase; ESR; Nickel; Active site (C. vinosum) (Albracht, S.P.J. (681) 330)

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Iron transport
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Lipid peroxidation; Phosphatidylcholine hydroperoxide; Peroxidation inhibitor; Glutathione; α-Tocopherol (Ursini, F. (710) 197)

Iron uptake
Iron transport; Transferrin (Rat reticulocyte) (Takahashi, K. (685) 6)

Transferrin receptor; Development (Erythroid cell) (Iacopetta, B.J. (687) 204)

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Isobutylmethylxanthine
Alkalinization; Bicarbonate secretion; Short-circuit current; Acetazolamide (Turtle bladder) (Ehrenspeck, G. (684) 219)

Intrinsic factor secretion; Histamine; H_2 receptor (Mucosal cell) (Batzri, S. (720) 217)

Isocitrate
Dimethylnitrosamine; 6-Phosphogluconate; Intact cell; Carcinogen (Kohen, E. (720) 420)

Isoelectric focusing
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Ribulosebisphosphate carboxylase (*R. rubrum*) (Johal, S. (704) 374)

Thyroglobulin (Human) (Davoli, C. (705) 243)

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Hemoglobin A; Glycosylation (Human) (Mortensen, H.B. (707) 154)

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Ribulosebisphosphate carboxylase; Species specificity (*Acetabularia* chloroplast) (Leible, M.B. (699) 60)

Isomeric octadecenoic acid
trans Fatty acid; Nerve lipid; Phospholipid; Polyunsaturated fatty acid (Rat) (Lawson, L.D. (712) 117)

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Isoproterenol
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Adenylate cyclase; β-Adrenergic agonist; Desensitization (Hepatocyte) (Reilly, T.M. (720) 126)

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Acetylcholine receptor; Receptor sensitivity (Rat salivary gland) (Hootman, S.R. (716) 341)

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Isotope exchange
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Isozyme
Lactate dehydrogenase; Thermostability; Guanidination; Subunit interaction (Pig) (Shibuya, H. (708) 300)

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AMP deaminase (Human) (Ogasawara, N. (714) 298)

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ATP hydrolysis; Proton translocation; Membrane potential; ATPase; Electron transport (Bovine heart, Rat liver, Submitochondrial particle) (Sorgato, M.C. (681) 319)

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K^+
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K^+ affinity
Ca^{2+} transport; Na^+ affinity; Ca^{2+} pump (Human erythrocyte) (Romero, P.J. (691) 359)

K^+ channel
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Ca^{2+} dependence; Amino acid transport; Quinine; Membrane potential (Ehrlich ascites cell) (Valdeolmillos, M. (689) 177)

K^+ transport; Adrenalin stimulation; Ionophore stimulation; Ca^{2+} dependence; Monolayer; α-Adrenergic receptor (Cultured epithelium) (Brown, C.D.A. (690) 95)

K^+ conductance
Ca^{2+}; Membrane potential; Ionophore A23187 (Human erythrocyte) (Vestergaard-Bogind, B. (688) 37)

K^+ efflux
Membrane stabilizer; Chlorpromazine; Thiopental; Tetracaine (*S. aureus*) (Kristiansen, J.E.H. (685) 379)

DDT; Phospholipid; Cholesterol (Human erythrocyte) (Ahmad, P. (689) 135)

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Ca^{2+} dependence; Trifluoperazine; Quinidine (Rat submandibular gland) (Kurtzer, R.J. (693) 479)

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Vanadium; Insulin; Hyperpolarization (Mouse skeletal muscle) (Zemková, H. (720) 405)

K^+-Na^+ exchange
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K^+ permeability
Valinomycin; K^+-Na^+ exchange (Human lymphocyte) (Negendank, W. (688) 316)

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Membrane potential; Rb^+; Valinomycin (E. coli) (Bakker, E.P. (681) 474)

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Ouabain; Osmolarity; Bumetanide sensitivity; Transformation (3T3 cell) (Bakker-Grunwald, T. (687) 333)

K^+ channel; Adrenalin stimulation; Ionophore stimulation; Ca^{2+} dependence; Monolayer; α-Adrenergic receptor (Cultured epithelium) (Brown, C.D.A. (690) 95)

K^+ uptake
Insulin; Ouabain; Na^+ uptake; Vanadate (Heart cell) (Werdan, K. (687) 79)

Kallikrein
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Arginine esterase; Circular dichroism (Human saliva) (Hare, E.R. (709) 65)

Prokallikrein; Trypsin activation (Rat pancreas) (Hussain, M. (719) 40)

Keratin
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Keratinization
Differentiation; Protein microheterogeneity; Hydrocortisone (Chick embryo skin) (Obinata, A. (708) 33)

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Histidine-rich protein; Amino acid; Urocanic acid; Pyrrolidone carboxylic acid (Stratum corneum) (Scott, I.R. (719) 110)

Ketogenesis
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L-Alanine (Sugden, M.C. (717) 385)

2-Ketoisocaproate
Respiration; Insulin release; L-Leucine; D-Glucose; L-Glutamine (Mouse pancreas islet) (Welsh, M. (721) 178)

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Ketoprostaglandin
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Ketosis
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Renin; Uterus (Rabbit) (Vallarino, M. (702) 1)

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(Na^+ + K^+)-ATPase; Nucleotide specificity (Boldyrev, A.A. (707) 167)

Kininogen
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Knallgas reaction
Electron transport; Hydrogenase; Oxygen reduction (*P. mirabilis*) (Krab, K. (682) 59)

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Activator protein; Galactosylceramide; Bile salt; Gaucher disease; Phospholipid (Wenger, D.A. (712) 639)

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Kynurenine metabolism
Kynureninase; Anthranilic acid (Rat) (Bender, D.A. (717) 56)

L

La^{3+}
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L_β-H_{II} transition
Hexagonal phase; ^{31}P-NMR; Phosphatidylethanolamine; Fatty acid; X-ray diffraction (Marsh, D. (690) 117)

***Lac* repressor headpiece**
Thermal denaturation; Circular dichroism; Conformation stability; Tryptic digestion (*E. coli*) (Schnarr, M. (702) 155)

β-Lactamase
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β-Lactamase I
Chemical modification; Tyrosine residue (Wolozin, B.L. (701) 153)

Lactase
Phlorizin hydrolase; Immunoaffinity chromatography; Brush border membrane (Pig intestine) (Skovbjerg, H. (707) 89)

Lactate
Dehydrogenase; Compartmentation; Tritium transfer (Rat hepatocyte) (Vind, C. (720) 295)

Lactate dehydrogenase
Spin label; NAD^+ analog; Deuterium substitution; AMP analog (ESR) (Glöggler, K.G. (701) 224)

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Thermostability; Guanidination; Subunit interaction; Isozyme (Pig) (Shibuya, H. (708) 300)

Lactate formation
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Lactate production
Aminoisobutyrate; Protein synthesis; Amino acid transport; Adenine nucleotide (Cardiac myocyte) (Walker, E.J. (721) 280)

Lactate transport
Anion transport; Monocarboxylate transport; Non-ionic diffusion (Human erythrocyte membrane) (Deuticke, B. (684) 96)

Lactate uptake
Acetate effect; Ketogenesis; Glucose output; Lipid synthesis (Rat liver) (Snoswell, A.M. (716) 290)

Lactation
Plasma membrane isolation; Marker enzyme; Milk fat globule (Bovine mammary gland) (Kanno, C. (689) 121)

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Lysozyme treatment; Bacterial cell (*Micrococcus luteus*) (Perraudin, J.-P. (718) 42)

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Myeloperoxidase; Thiocyanate; Steady-state kinetics; Peroxidation (Wever, R. (709) 212)

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Glucosylsphingosine; Ganglioside G_{M3}; Glucosylceramide; Mass spectrometry; Gaucher disease (Spleen, Liver) (Nilsson, O. (712) 453)

Lamellar body
Lysosomal enzyme; Multivesicular body; Pulmonary surfactant (Human fetus) (Okazaki, T. (712) 283)

Lamellar phase
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Large T antigen
SV40; Nucleic acid; Polyphosphate binding (Montenarh, M. (697) 322)

Lasalocid
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Lasalocid complex
Amine structure; Model membrane; Ionophore selectivity; Oil/water interface (Kinsel, J.F. (692) 377)

Laser diffraction
Erythrocyte membrane; Deformability; Ca^{2+} effect; Ektacytometry (Heath, B.P. (691) 211)

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Membrane protein; Molecular weight determination; Porin; High-performance gel chromatography (*E. coli*) (Kameyama, K. (706) 19)

Laser photolysis
Recombination kinetics; Carboxyhemoglobin; Hemoglobin structure (Catterall, R. (705) 257)

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Late gene
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Lateral compressibility
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Lateral diffusion
Phospholipid-cholesterol bilayer; Percolation model (Slater, G. (686) 249)

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Mannose
Mannokinase; Enzyme induction (*Streptomyces*) (Coulombel, C. (706) 117)

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Phosphatidylcholine; Protein-lipid interaction; Tryptophan residue; Fluorescence; Emission anisotropy (Georghiou, S. (688) 441)

Phospholipid vesicle; Fusion; Fluorescence depolarization; Diphenylhexatriene derivative (Morgan, C.G. (692) 196)

Melittin association
Phospholipid binding; Fluorescence polarization (Talbot, J.-C. (689) 106)

Membrane adaptation
End-product inhibition; Fatty acid composition; Ethanol; Membrane lipid (*Cl. thermocellum*) (Herrero, A.A. (693) 195)

Membrane aggregation
Membrane protein; Fluorescence energy transfer; Fluorescent label; Ca^{2+} (Chromaffin granule) (Morris, S.J. (693) 425)

Membrane antihemolysis
Calmodulin; Cyclic nucleotide; Phosphodiesterase; (Ca^{2+} + Mg^{2+})-ATPase; Drug inhibition (Erythrocyte) (Bereza, U.L. (692) 305)

Membrane-associated component
Cholera toxin sensitivity; Adenylate cyclase (Rat kidney) (Pinkett, M.O. (714) 337)

Membrane asymmetry
Phosphatidylcholine exchange; Protein cross-link (Human erythrocyte) (Franck, P.F.H. (687) 105)

Phospholipid packing; Surface curvature; ^{1}H-NMR (Bilayer vesicle) (Schuh, J.R. (687) 219)

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Phospholipid; Arachidonic acid; Phospholipase; Lipoprotein (Platelet) (Plantavid, M. (693) 451)

Membrane-bound enzyme
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Membrane breakdown
Electrical breakdown; Voltage scanning velocity; Phase transition; Elastic module; Lipid bilayer (Shchipunov, Yu.A. (691) 353)

Membrane capacitance
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Membrane channel
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Suzukacillin fragment; Helical peptide; Oligopeptide conformation; NMR (Iqbal, M. (706) 179)

Membrane conductance
Lasalocid; Biogenic amine; Model membrane (Kinsel, J.F. (684) 233)

Membrane permeability; Burn toxin; Thermal injury (Skin) (Schmidt, K. (692) 52)

Membrane-conjugated antibody
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Membrane damage
Ca^{2+} permeability; Nystatin; Polyene antibiotic (Yeast) (Eilam, Y. (692) 238)

Membrane deformability
Shear stress; Ca^{2+} accumulation (Erythrocyte) (O'Rear, E.A. (691) 274)

Membrane depolarization
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Membrane disruption
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Membrane excitation
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Membrane exposure
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Membrane filtration
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Membrane fixation
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Membrane flow
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Lymphocyte stimulation; Succinyl-concanavalin A; Fluorescence anisotropy (Human) (Cherenkevich, S.N. (686) 170)

Homeoviscous response; Temperature acclimation (Goldfish brain) (Cossins, A.R. (687) 303)

Vitamin D; Ca^{2+} transport; Fatty acid deficiency; Spin label (Chicken intestine) (Putkey, J.A. (688) 177)

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Glucose uptake; Sugar transport; Alcohol; Membrane lipid structure; Insulin (Sauerheber, R.D. (691) 115)

Liposome; Phagocytosis; Antibody dependence (Human neutrophil) (Munn, M.W. (692) 101)

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(Na^+ + K^+)-ATPase; Protein purification; Cataract (Porcine lens) (Sen, P.C. (693) 34)

Plasma membrane isolation; Membrane protein; Lipid composition; Fluorescence polarization (Mouse) (Haeffner, E.W. (693) 280)

Swimming velocity; Temperature acclimation (*Tetrahymena*) (Goto, M. (693) 335)

Membrane fractionation
Lipid composition; Membrane fluidity; Fluorescence polarization (*M. gallisepticum*) (Le Grimellec, C. (689) 309)

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Membrane fragment release
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Membrane fusion
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Liposome; Phosphatidylserine; Ca^{2+} dependence (Stopped flow / rapid freeze technique) (Miller, D.C. (689) 165)

Poly(ethylene glycol); Liposome; Ca^{2+}; Membrane permeability; Erythrocyte membrane (Aldwinckle, T.J. (689) 548)

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Lipidic particle; Phospholipid vesicle; Quick freezing; Fusion intermediate; Freeze-fracture (Bearer, E.L. (693) 93)

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Energy dependence; Membrane organization; Protein structure (Le Grimellec, C. (687) 281)

Liposome; Anti-liposome antibody; Anti-phospholipid antibody; Monoclonal antibody; Lipid composition; Binding specificity (Banerji, B. (689) 319)

Cl^- transport; Transport kinetics (Mammalian erythrocyte) (Lu, Y.-B. (689) 485)

End-product inhibition; Membrane adaptation; Fatty acid composition; Ethanol (*Cl. thermocellum*) (Herrero, A.A. (693) 195)

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Membrane lipid dynamics
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Membrane modification
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Membrane order
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Membrane organization
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Membrane conductance; Burn toxin; Thermal injury (Skin) (Schmidt, K. (692) 52)

Fatty acid uptake; Phospholipid synthesis; X-ray irradiation; Tumor (Mouse spleen) (Fonck, K. (692) 406)

Anion exchange; Cholesterol content; Cholestasis (Human erythrocyte membrane) (Jackson, P. (693) 99)

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Membrane perturbation
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Membrane phospholipid
Phosphatidylethanolamine synthesis; Asymmetry; Transmembrane movement (Rat liver microsome) (Hutson, J.L. (687) 247)

Membrane phosphorylation
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Ca^{2+} transport; Inside-out vesicle; Phospholipid; Divalent metal ion (Human erythrocyte membrane) (Enyedi, Á. (690) 41)

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Fatty acid supplementation; Membrane lipid dynamics; Cation permeability; Fluorescent probe (Mouse neuroblastoma cell) (Boonstra, J. (692) 321)

Ion channel; Hemocyanin; Single-channel conductance; Pore size (Cecchi, X. (693) 173)

Kinetic analysis; H^+ (*S. fragilis*) (Van den Broek, P.J.A. (693) 213)

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Membrane protein
Photosystem II; Reaction center; Herbicide; Phosphorylation; Dichlorophenyldimethylurea (C. reinhardii) (Shochat, S. (681) 21)

Photosynthetic membrane; Bacterial photosynthesis (A. nidulans) (Guikema, J. (681) 440)

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Solubilization analysis; two-dimensional Electrophoresis; Glycoprotein staining (*Staph. aureus*) (Kubak, B.M. (687) 238)

Phosphorylation; Protein kinase; Phosphoprotein; cyclic AMP; Sarcolemma (Chick heart) (Hosey, M.M. (690) 106)

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Amino acid transport; *N*-Ethylmaleimide; Sulfhydryl group (Liver cell culture) (Takadera, T. (691) 293)

Thiol-disulfide status; Glutathione; Glucose-6-phosphate dehydrogenase (Erythrocyte) (Kosower, N.S. (691) 345)

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Plasma membrane isolation; Lipid composition; Membrane fluidity; Fluorescence polarization (Mouse) (Haeffner, E.W. (693) 280)

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Neuraminidase treatment; Protein aggregation; Detergent solubilization (Human lymphocyte) (Gmünder, H. (693) 359)

Membrane aggregation; Fluorescence energy transfer; Fluorescent label; Ca^{2+} (Chromaffin granule) (Morris, S.J. (693) 425)

Antidiuretic hormone; Oxytocin; Detergent extraction; Polyoxyethylene nonylphenol; Water permeability (Frog urinary bladder) (Ripoche, P. (693) 497)

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Cholesterol ester; Solubilization; Liposome; Cholesterol metabolism; Acyl-CoA:cholesterol acyltransferase (Rat liver) (Suckling, K.E. (710) 154)

Membrane protein phosphorylation
Reaction center; Photosystem II; Fluorescence (Chloroplast membrane) (Kyle, D.J. (680) 336)

Membrane purification
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Membrane receptor
Discoidin I-membrane interaction; Binding site (*D. discoideum*) (Bartles, J.R. (687) 121)

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Redox center; Resonance X-ray diffraction; Synchrotron radiation (Stamatoff, J. (679) 177)

Resonance X-ray diffraction; Synchrotron radiation; Redox center; Cytochrome *c*; Cytochrome oxidase; Reaction center (Blasie, J.K. (679) 188)

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Reaction center; Linear dichroism; Bacterial photosynthesis; Polarized infrared spectroscopy (*Rps. sphaeroides*) (Nabedryk, E. (682) 273)

Sarcoplasmic reticulum; Ca^{2+}-ATPase; H_2O-^2H_2O gradient; Protein-lipid interaction (Konigsberg, P.J. (685) 355)

Phospholipase A_2; Na^+ channel (Lobster nerve) (Barnola, F.V. (686) 110)

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Acetylcholine receptor; Solubilization; Na^+ efflux (*Torpedo californica*) (Paraschos, A. (691) 249)

Na^+-Ca^{2+} antiporter; (Na^+ + K^+)-ATPase; Liposome (Porcine brain) (Eckert, K. (692) 69)

Na^+-Ca^{2+} exchange; Pronase; Antiporter purification; Liposome (Chick heart) (Wakabayashi, S. (693) 125)

Membrane refolding
Inside-out vesicle; Sidedness; Asymmetry; Phase partition; Thylakoid membrane (Spinach chloroplast) (Sunby, C. (688) 709)

Membrane resistance
Quartz cell; Membrane capacitance; Lipid bilayer (Procopio, J. (688) 808)

Membrane shedding
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Chaotrope; Guanidine hydrochloride; cyclic AMP receptor (*D. discoideum*) (Henderson, E.J. (690) 57)

Membrane stability
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Spectrin-actin dissociation; Phospholipase A_2; Cytoskeleton (Erythrocyte membrane) (Gottlieb, M.H. (686) 133)

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Growth phase; Fluorescent probe; Phase transition; Freeze-thawing (*E. coli*) (Souzu, H. (691) 161)

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Chlorpromazine; Thiopental; Tetracaine; K^+ efflux (*S. aureus*) (Kristiansen, J.E.H. (685) 379)

Membrane structure
Salt effect; Photosynthesis; Electrochromic absorption change; Transmembrane potential difference (Spinach chloroplast, Thylakoid) (Tiemann, R. (681) 202)

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Phase transition; ^{2}H-NMR; Myristic acid (*A. laidlawii*) (Jarrell, H.C. (688) 622)

Virus capping; Fluorescence; Mycoplasma cell (Haberer, K. (688) 720)

Infrared spectroscopy; Thermotropism; Phosphatidylsulfocholine; Phase transition (Mantsch, H.H. (689) 63)

Intramembrane particle; Freeze-fracture; Immunoglobulin (B Lymphocyte) (De Groot, C. (689) 275)

Lipid bilayer; Rapid freezing; X-ray crystallography; Liquid crystal; Phase transition; Differential scanning calorimetry (Melchior, D.L. (690) 81)

Mitochondiral membrane; Contact site; Non-bilayer lipid; Phospholipid; Freeze-fracture; Electron microscopy (Rat liver) (Van Venetië, R. (692) 397)

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Membrane synthesis
Cholesterol synthesis inhibitor; Differentiation; Compactin; Acetylcholine receptor (Muscle) (Lowrey, C.H. (712) 430)

Membrane tension
Micelle equilibrium; Amphiphile solubility (Lipid monolayer) (Gruen, D.W.R. (688) 572)

Membrane topology
Membrane exposure; Glutathione; Maltose (Kidney cortex slice) (Arthus, M.-F. (692) 371)

Membrane topoloy
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Membrane transport
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Membrane vesicle
Aminoisobutyric acid translocation; Na^+/solute symport (*B. alcalophilus*) (Bonner, S. (679) 315)

Bacterial photosynthesis; Chromatophore; Electron transfer; Photoelectrochemical cell (Rps. sphaeroides) (Seibert, M. (681) 504)

Phosphatidylcholine bilayer; Phase transition; Trapped volume (Lichtenberg, D. (684) 277)

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Mixed-acid phosphatidylcholine; Phospholipid motion; Model membrane; ^{13}C-NMR; Differential scanning calorimetry (Santaren, J.F. (687) 231)

Lipid analysis; Plasma membrane; Membrane shedding; Fluidity; Fluorescence polarization (Van Blitterswijk, W.J. (688) 495)

Microvillus; Immunoaffinity chromatography (Pig intestine) (Carlsen, J. (689) 12)

Acridine orange; ATPase; Proton translocation; Transport (Pea stem) (Vianello, A. (689) 89)

Proton permeability; 9-Aminoacridine; pH gradient; Phospholipid; Divalent cation (Zea mays, Sealed vesicle) (Perlin, D.S. (690) 178)

Phase transition; X-ray diffraction (*T. pyriformis*) (Funk, J. (690) 306)

Amino acid transport; Development; Brush border membrane (Guinea pig ileum) (Hayashi, K. (691) 83)

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Lipophilin; Dimyristoylphosphatidylcholine; Phase transition; Lipid-protein interaction (Lipid bilayer) (Fodor, D. (693) 27)

Menadione
Acetylphenylhydrazine; Hemoglobin precipitation; Drug effect; Oxidation (MacDonald, V.W. (701) 39)

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Meningoencephalitis
Phospholipase A; Sphingomyelinase; Lysophospholipase (*N. fowleri*) (Hysmith, R.M. (711) 26)

Mepacrine
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Mercaptopicolinate
Glucose uptake; Diabetes (Rat liver) (Nordlie, R.C. (719) 244)

3-Mercaptopicolinic acid
Glyceride-glycerol; Fatty acid; Lipid metabolism; Lipid precursor (Bovine adipose tissue) (Smith, S.B. (712) 365)

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Merocyanine 540
Cytoskeleton; Lipid distribution; Cytochalasin B (Erythroleukemia cell) (Hunt, R.C. (720) 106)

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Fatty acid transport; Albumin; Temperature dependence; Cell culture (Leukemic myeloid cell) (Morand, O. (693) 143)

Pentalenolactone; Glucose metabolism; Glyceraldehyde-3-phosphate dehydrogenase (Mammalian cell) (Duszenko, M. (714) 344)

Metabolic regulation
Creatine kinase; ^{31}P-NMR; Saturation transfer; Energy metabolism (Perfused rat heart) (Matthews, P.M. (721) 312)

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Metallochromic indicator
ADP transport; ATP transport; Metal ion (Mitochondria) (Boos, K.-S. (693) 68)

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Methyldeoxyuridine synthesis
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Myosin heavy chain
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N-terminal sequence
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Na^+/H^+ antiporter
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Neuraminidase treatment
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Nicotine oxidation
Cytochrome P-450; Nicotine oxidase (Nakayama, H. (715) 254)

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Ornithine decarboxylase; dibutyryl cyclic AMP; Post-transcriptional control (Guinea-pig lymphocyte) (Otani, S. (696) 171)

Growth inhibition; Concanavalin A (Zajdela's hepatoma cell) (Nato, F. (718) 11)

Phytol
Surface pressure isotherm; Chlorophyll *a*; Monogalactosyldiacylglycerol; Free energy calculation; Mixed monolayer (Tancrède, P. (689) 45)

Phytosphingosine
Ganglioside; Sialic acid; Glycolipid structure; Carbohydrate backbone; *N*-Acetylglucosamine (Starfish hepatopancreas) (Kochetkov, N.K. (712) 650)

Pigment orientation
Linear dichroism; Thylakoid membrane; Chlorophyll-protein complex; Polarized light (Pea chloroplast) (Haworth, P. (679) 428)

Linear dichroism; Thylakoid membrane; Chlorophyll-protein complex; Low temperature (Pea chloroplast) (Haworth, P. (682) 152)

Linear dichroism; Chlorophyll-protein complex; Light-harvesting complex (Thylakoid membrane) (Tapie, P. (682) 339)

Pigment-protein complex
Chlorophyll; Electrogenic function; Membrane potential (A. variabilis) (Barsky, E.L. (680) 304)

Thin-layer chromatography; Bacterial photosynthesis; Carotenoid (*Prosthecochloris aestuarii*) (Swarthoff, T. (681) 354)

Fluorescence; Excitation spectrum; Magnetic field; Bacterial photosynthesis (Prosthecochloris aestuarii) (Kramer, H.J.M. (681) 359)

Pindolot analog
Adrenergic receptor; Platelet membrane (Human) (Steer, M.L. (686) 240)

Ping-pong mechanism
Phosphoglycerate mutase; Subunit composition (Pig heart) (Bartrons, R. (708) 167)

Pinocytosis
Phenolic residue; Tyramine derivative; Poly(hydroxyethyl)aspartamide (Rat visceral yolk sac) (Duncan, R. (717) 248)

Polycationic polymer; Vinylpyrrolidone; Vinylamine (Rat yolk sac, Macrophage) (Pratten, M.K. (719) 424)

Avidin-biotin complex (HeLa cell) (Chalifour, L.E. (721) 64)

1-Piperidinoanthraquinone
Cytochrome *P*-450; Photochemical modeling; Microsome; Redox reaction (Weiner, L.M. (714) 234)

Placenta
Membrane potential; Ca^{2+} transport; Ca^{2+} channel; K^+ channel (Human cytotrophoblast culture) (Yano, J. (685) 162)

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Plasma clearance
Ethyl oleate; LDL; Lipoprotein uptake; Reticuloendothelial system; Chemical modification (Rabbit) (Packard, C.J. (712) 412)

Glycosylation; LDL; Lipoprotein binding (Human fibroblast) (Sasaki, J. (713) 199)

Fibrin fragment; Fibrinogen (Mouse) (Pizzo, S.V. (718) 177)

Plasma factor kinetics
Sphingomyelin; Lipid transfer (Pownall, H.J. (712) 169)

Plasma kallikrein
Collagenase activation (Rheumatoid synovial fluid) (Nagase, H. (702) 133)

Plasmalemma
Spherical invagination; Intramembrane particle (*Schwanniomyces occidentalis*) (Dmitriev, V.V. (686) 130)

Concanavalin A binding; Differentiation; Membrane receptor; Zymogen granule (Rat pancreatic acinar carcinoma) (Warren, J.R. (690) 50)

Plasma lipoprotein
VLDL subfraction; Apolipoprotein (Rhesus monkey) (Lusk, L. (710) 134)

Plasma membrane
Subcellular fractionation; Intercalated disc; Intercellular junction (Mouse cardiac muscle) (Colaco, C.A.L.S. (684) 40)

Alkaline phosphodiesterase; Alkaline phosphatase; Transformation; Lectin (Hamster cell, Herpes simplex virus) (Schneider, D. (685) 94)

Chitin synthetase; Enzyme localization; Cell wall biogenesis (*Blastocladiella emersonii* zoospore) (Dalley, N.E. (686) 65)

Mg^{2+}-ATPase; Monovalent cation (*D. discoideum*) (Blanco, M. (687) 94)

Phospholipid metabolism; Lymphocyte stimulation; Concanavalin A stimulation (Rode, H.N. (688) 66)

Lipid analysis; Membrane vesicle; Membrane shedding; Fluidity; Fluorescence polarization (Van Blitterswijk, W.J. (688) 495)

Na^+-ATPase; Ca^{2+} effect; Mg^{2+} dependence; Ouabain insensitivity (Guinea pig kidney cortex) (Proverbio, F. (688) 757)

Protein turnover; Cycloheximide; Tunicamycin (*S. cerevisiae*) (Herrero, E. (689) 38)

Vitamin D-3; Ca^{2+} transport; Ca^{2+}-ATPase (Rat intestine) (Ghijsen, W.E.J.M. (689) 170)

Ca^{2+} transport; Ca^{2+}-ATPase (Rat intestine) (Ghijsen, W.E.J.M. (689) 327)

Viral envelope; Lipid mobility; Phase transition; Spin label; ESR (Retrovirus) (Slosberg, B.N. (689) 393)

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Na^+-ATPase; $(Na^+ + K^+)$-ATPase; Ouabain sensitivity (Guinea pig kidney) (Del Castillo, J.R. (692) 61)

Differentiation; Glycoprotein (Friend cell) (Bosman, G.J.C.G.M. (693) 444)

Growth factor; nuclear DNA synthesis (Mouse liver) (Bishayee, S. (696) 134)

Sphingomyelin metabolism; Ceramide; Cholinephosphotransferase; Golgi (Mouse fibroblast) (Marggraf, W.D. (710) 314)

HDL-binding site; Apolipoprotein-binding site; Lipoprotein (Rat liver) (Chacko, G.K. (712) 129)

Sphingomyelinase; Subcellular localization (Neuroblastoma cell) (Spence, M.W. (719) 162)

Calmodulin-binding protein; Cytoskeleton (Bovine thyroid gland) (Tawata, M. (719) 406)

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Percoll gradient; Electron microscopy; Phospholipid content (Ascites tumor cell) (Record, M. (688) 57)

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Plasma membrane structure
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Plasma membrane vesicle
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Subfractionation; Affinity chromatography (Cultured mouse fibroblast) (Schroeder, F. (690) 231)

$(Na^+ + K^+)$-ATPase; Filipin; Cholesterol probe; Freeze-fracture (Rat liver) (Sips, H.J. (692) 447)

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Plasminogen
Plasmin; a_2-Antiplasmin; Circular dichroism (Nilsson, T. (705) 264)

Streptokinase; Plasmin (Horse) (Marcum, J.A. (709) 19)

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Urokinase; 66 000-dalton protein; Human fibroblast; Cellular target (Keski-oja, J. (720) 141)

Plastocyanin
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P-700; Cytochrome *f*; Electron transfer (Spinach chloroplast, Kinetics) (Olsen, L.F. (682) 482)

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Protein phosphorylation; Linear dichroism; Thylakoid stacking; Energy distribution (Pea) (Biggins, J. (679) 479)

Photosynthesis; Fluorescence induction; Electron transport (Cyanobacterium) (Aoki, M. (682) 307)

Dichlorophenyldimethylurea; Photosystem II; Electron transfer; Photosynthesis (Lavergne, J. (682) 345)

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Platelet-activating factor
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Acetylglycerylphosphorylcholine; Prostaglandin I_2; cyclic AMP level; Thromboxane A_2 dependence (Human platelet) (Miller, O.V. (711) 445)

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Arachidonic acid; Endoperoxide analog (Huang, E.M. (715) 246)

Platelet aggregation
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Phospholipase A_2; Mepacrine; Aspirin; Indomethacin (Chan, A.C. (713) 170)

Primary amine; Ca^{2+} effect (Human) (Ganguly, P. (714) 192)

Lipoxygenase; Arachidonate; Hydroperoxyeicosatetraenoic acid (Aharony, D. (718) 193)

ADPase; Protein secretion; Vitamin B-12; Vitamin-binding protein; Phorbol myristate acetate (Human polymorphonuclear leukocyte) (Smith, G.P. (719) 304)

N-Acetylglucosamine; Lectin-membrane binding (Tandon, N.N. (719) 388)

Platelet-derived growth factor
Phospholipid synthesis; Cholesterol ester synthesis; Hypercholesterolemia (Human skin fibroblast) (Leslie, C.C. (711) 290)

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Adrenergic receptor; Pindolot analog (Human) (Steer, M.L. (686) 240)

Platelet secretion
Protein phosphorylation; Ionophore A23187; Ca^{2+} antagonist; Thrombin stimulation (Human) (Wallace, W.C. (721) 164)

Platelet shape change
Amine uptake; Phenethylamine derivative; Serotonin receptor (Rat platelet) (Lampugnani, M.G. (693) 22)

Platelet viability
Prostacyclin; Prostaglandin; Thromboxane (Man) (Blackwell, G.J. (718) 60)

Platinum analog
DNA cross-link; Diaminocyclohexanedichloroplatinum (Murine leukemia cell) (Strandberg, M.C. (698) 128)

Platinum complex
Nucleosome; Fluorescent probe; Antitumor drug; Tb^{3+}; Histone H (Rat liver, Calf thymus) (Thompson, L.M. (698) 173)

Poisoning
Lipid peroxidation; Phospholipid; Carbonyl function (Liver microsome) (Benedetti, A. (712) 628)

Polarization excitation
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Polarized excitation spectrum
Fluorescence polarization; Linear dichroism; Chlorophyll orientation; Photosynthesis (Spinach chloroplast) (Kramer, H.J.M. (682) 201)

Polarized infrared spectroscopy
Reaction center; Linear dichroism; Bacterial photosynthesis; Membrane reconstitution (*Rps. sphaeroides*) (Nabedryk, E. (682) 273)

Polarized light
Linear dichroism; Thylakoid membrane; Pigment orientation; Chlorophyll-protein complex (Pea chloroplast) (Haworth, P. (679) 428)

Polar lipid
Glycolipid sulfate; Extreme halophile (Halobacterium) (Kushwaha, S.C. (711) 19)

Phospholipid; Glycolipid; Diacylglyceryltrimethylhomoserine; Halotolerance (*Dunaliella* sp.) (Evans, R.W. (712) 186)

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Protein identification; Immunofixation; Protein transfer (Johnson, M.H. (718) 121)

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Proteolipid protein; Protein distribution; Molecular weight determination (Rat brain) (Bizzozero, O.A. (691) 281)

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two-dimensional Polyacrylamide gel electrophoresis
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Histone; Methylation; *S*-Adenosylmethionine; Cation (Brain) (Duerre, J.A. (719) 18)

Polyamine dependence
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Polyamine metabolism
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Spermidine; Putrescine (Rat) (Matsui, I. (719) 199)

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Polybrominated biphenyl
Phosphorylase; Polychlorinated compound; Biphenyl; Biphenylol (Rabbit muscle) (Mead, R.C. (701) 173)

Polycation
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Polycationic bead
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Polycationic polymer
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Polychlorinated compound
Phosphorylase; Polybrominated biphenyl; Biphenyl; Biphenylol (Rabbit muscle) (Mead, R.C. (701) 173)

Polycyclic aromatic hydrocarbon
Choline kinase; 3-Methylcholanthrene; Polyamine (Rat liver) (Ishidate, K. (713) 94)

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Polydeoxyribonucleotide
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Polyene antibiotic
Amphotericin B; Lipid bilayer; Membrane permeability; Trace metal (Aggett, P.J. (684) 291)

Nystatin; Lipid composition; Lipid structure; Fatty acid (*C. tropicalis*) (Danilenko, I.I. (691) 201)

Ca^{2+} permeability; Nystatin; Membrane damage (Yeast) (Eilam, Y. (692) 238)

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Liposome; Ca^{2+}; Membrane permeability; Membrane fusion; Erythrocyte membrane (Aldwinckle, T.J. (689) 548)

Cell fusion; Antioxidant (Smith, C.L. (692) 109)

Polyglutamyl folate
Purine synthesis; Glycinamide ribotide transformylase (Chicken liver) (Chan, V.T. (702) 99)

Polyglycosyl conjugate
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Poly(halogeno-adenylate)
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Poly(β-hydroxybutyrate)
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Poly(hydroxyethyl)aspartamide
Pinocytosis; Phenolic residue; Tyramine derivative (Rat visceral yolk sac) (Duncan, R. (717) 248)

Polyisoprenoid synthesis
Dolichol synthesis; Cholesterol synthesis; Development (Chicken embryo) (Wong, T.K. (710) 32)

Polylysine
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Polylysine-coated bead
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Mg^{2+}-ATPase; Concanavalin A (Rat plasma membrane) (Ohtsu, Y. (690) 69)

Polymerization
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Viral protein; Salt effect (Tobacco mosaic) (Vogel, D. (706) 65)

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Fatty acid; Covalent binding; Membrane protein; Erythrocyte (Man, Rat) (Marinetti, G.V. (685) 109)

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Polynucleotide
Hydrogen-exchange kinetics; Triple helix; Hoogsteen configuration (Hayashi, Y. (698) 93)

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Polyoxyethylene nonylphenol
Antidiuretic hormone; Oxytocin; Detergent extraction; Membrane protein; Water permeability (Frog urinary bladder) (Ripoche, P. (693) 497)

Polypeptide binding
Dicyclohexylcarbodiimide; Proteolipid; ATPase (*B. subtilis* membrane) (Serrahima-Zieger, M. (679) 369)

Polypeptide chain
Fatty acid synthesis; Fatty acid synthetase; Dinoflagellate (*Crypthecodinium cohnii*) (Sonnenborn, U. (712) 523)

Polyphosphate binding
SV40; Nucleic acid; Large T antigen (Montenarh, M. (697) 322)

Polyphosphate localization
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Polyphosphoinositide
myo-Inositol; Phospholipid isolation (Ox brain) (Kiselev, G.V. (712) 719)

Polyprenyl phosphate
Phospholipid; Subcellular distribution (*A. niger*) (Lætoublon, R. (711) 509)

Polyprenyl pyrophosphate
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Mitomycin C; Guanine; Guanine analog (Weaver, J. (697) 252)

Polysaccharide
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Polysome isolation
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Polysome precursor
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Polyunsaturated fatty acid
Fatty acid synthetase; Dietary fat (Mouse liver) (Schwartz, R.S. (711) 316)

Autoxidation; Lipoxygenase; Autofluorescence; Lipid peroxide (Gutteridge, J.M.C. (711) 460)

trans Fatty acid; Nerve lipid; Phospholipid; Isomeric octadecenoic acid (Rat) (Lawson, L.D. (712) 117)

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Voltage-gated pore; Membrane reconstitution; Lipid bilayer (Outer mitochondrial membrane) (Roos, N. (686) 204)

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Hexokinase-binding protein; Voltage-gated pore; Mitochondrial outer membrane; Glycerol kinase (Rat liver) (Fiek, C. (688) 429)

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Porphobilinogen
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Porphyrin
Ferrochelatase kinetics; Zn(II); Fe(II) (Yeast mitochondria) (Camadro, J.-M. (707) 280)

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Positional specificity
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Possitive cooperativity
Adrenergic receptor; Dihydroalprenolol; Binding kinetics; Membrane integrity (Brain) (Maderspach, K. (692) 469)

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Lipase; Lipoprotein metabolism; Antithrombin III (Canine plasma) (Frost, P.H. (712) 71)

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Carbonic anhydrase; Amino acid sequence; Evolution (Wallaby) (Jones, G.L. (709) 284)

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Power transmission
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α_{2u}-Globulin; Urinary protein induction; Androgen; mRNA; Translation (Rat) (Chatterjee, B. (698) 22)

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Pressure dependence
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Phase transition kinetics; Phospholipid; Raman spectroscopy (Yager, P. (688) 775)

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Primary process
Photosystem I; ESR; P-700; Triplet state; Decay kinetics (Setif, P. (681) 345)

Prochymosin
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Proclotting enzyme
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Progesterone binding
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11-*cis*-Retinal reduction
Retinal-binding protein (Bovine retina) (Saari, J.C. (716) 266)

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Poly(A)$^+$RNA
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poly(U$^+$) RNA
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Uremia (Human serum, Urine) (Rabin, E.Z. (701) 132)

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valyl-tRNA synthetase
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Sorbitol kinase
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Sorbitol 6-phosphate
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Spectrin fragment
Trypsin digest; Spectrin binding (Hanspal, M. (709) 105)

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Stress
Collagen structure; Fiber orientation; X-ray diffraction (Annulus fibrosus) (Klein, J.A. (719) 98)

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Erythrocruorin (*Eisenia fetida*) (Frossard, P. (704) 535)

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Succinate:ubiquinone dehydrogenase
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Sulfhydryl reactivity
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Electron transport; Photosystem II (Spinach chloroplast) (Barr, R. (681) 139)

Sugar transport; *N*-Ethylmaleimide; Chloromercuribenzene sulfonate; Dinitrophenol (Rat soleus muscle) (Kozka, I.J. (689) 210)

Sulfide insertion
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Superoxide generation
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Superprecipitation
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Temperature sensitivity
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12-*O*-Tetradecanoylphorbol 13-acetate
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DNA repair; Endonuclease; Pyrimidine dimer (*M. luteus*) (Zherebtsov, S.V. (698) 295)

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RNAase (Human serum, Urine) (Rabin, E.Z. (701) 132)

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Vinylpyrrolidone
Pinocytosis; Polycationic polymer; Vinylamine (Rat yolk sac, Macrophage) (Pratten, M.K. (719) 424)

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Plasma membrane; Lipid mobility; Phase transition; Spin label; ESR (Retrovirus) (Slosberg, B.N. (689) 393)

Liposome; Glycophorin; Freeze-fracture; Electron microscopy (Sendai virus) (Oku, N. (691) 91)

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Protein synthesis; Interferon synthesis; Butyrate; Bromodeoxyuridine (Human lymphoblast) (Shuttleworth, J. (698) 1)

Viscosity
Dicarboxylic phosphatidylcholine; Liposome; Micelle; Dicetyl phosphate; Gel chromatography; Electron microscopy (Dousset, N. (692) 223)

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ADPase; Platelet aggregation; Protein secretion; Vitamin B-12; Phorbol myristate acetate (Human polymorphonuclear leukocyte) (Smith, G.P. (719) 304)

Vitamin B-12
ADPase; Platelet aggregation; Protein secretion; Vitamin-binding protein; Phorbol myristate acetate (Human polymorphonuclear leukocyte) (Smith, G.P. (719) 304)

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Vitamin D-3 metabolite
Vitamin D-3 hydroxylase (*S. malacoxylon*) (Esparza, M.S. (719) 633)

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Hexokinase-binding protein; Porin; Mitochondrial outer membrane; Glycerol kinase (Rat liver) (Fiek, C. (688) 429)

Voltage gating
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Sterol ester hydrolase; Acid lipase; Cholesterol esterase; Lipid storage disease (Hoeg, J.M. (711) 59)

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Polyunsaturated fatty acid; Development; Regeneration (Peripheral nerve) (Yao, J.K. (712) 542)

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Warfarin binding
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Water
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N-Bridgehead nucleoside; Antiviral activity; Azadeazaguanosine; Nucleoside analog (Kojić-Prodić, B. (698) 105)

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Bilayer; Crystal structure; Gel structure; Dipalmitoylphosphatidylcholine; Sub-transition (Ruocco, M.J. (684) 59)

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L_β-H_{II} transition; Hexagonal phase; ^{31}P-NMR; Phosphatidylethanolamine; Fatty acid (Marsh, D. (690) 117)

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Phosphatidylcholine bilayer; Differential scanning calorimetry; Sub-transition; Chain packing (Ruocco, M.J. (691) 309)

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Thylakoid; Membrane structure; Hexagonal structure; Electron microscopy; Lipid analysis (*R. viridis*) (Welte, W. (692) 479)

Xanthine dehydrogenase
Reserpine; Nitrogen metabolism; Tyrosine aminotransferase; Purine nucleoside phosphorylase (Chick liver) (Wu, J.M. (715) 57)

Xanthine oxidase
Membrane-bound enzyme; Milk fat globule; Immunolocalization (Capillary endothelium) (Bruder, G. (701) 357)

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Hydroxyl radical; Lactoferrin (Bannister, J.V. (715) 116)

Xeroderma pigmentosum
DNA crosslink; DNA repair; Mitomycin C; Fanconi's anemia (Human) (Fujiwara, Y. (699) 217)

β-Xylosidase
β-Glucosidase; Cell wall (Yeast) (Peciarová, A. (716) 391)

Y

Yeast
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Yohimbine
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Zinc binding
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Zinc protein
Acylglyceride hydrolase; Retinyl palmitate hydrolase; Copper protein (Chick liver) (Sklan, D. (711) 532)

Zn(II)
Ferrochelatase kinetics; Fe(II); Porphyrin (Yeast mitochondria) (Camadro, J.-M. (707) 280)

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Lipoprotein metabolism; Lecithin:cholesterol acyltransferase; HDL (Human plasma) (Daerr, W.H. (710) 128)

Zone 4.5
Glucose transporter; Monosaccharide transport; Reconstitution; Erythrocyte membrane (Sase, S. (693) 253)

Zymogen granule
Concanavalin A binding; Differentiation; Plasmalemma; Membrane receptor (Rat pancreatic acinar carcinoma) (Warren, J.R. (690) 50)

Caerulein; Protein secretion (Pig pancreas) (Roberge, M. (716) 331)

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33 000-dalton protein
Photosystem II (Spinach chloroplast) (Kuwabara, T. (680) 210)

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43 000-dalton peptide
Post-synaptic membrane; Lysophosphatidylcholine
(Neugebauer, D.-C. (684) 272)

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66 000-dalton protein
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68 000-dalton inhibitor
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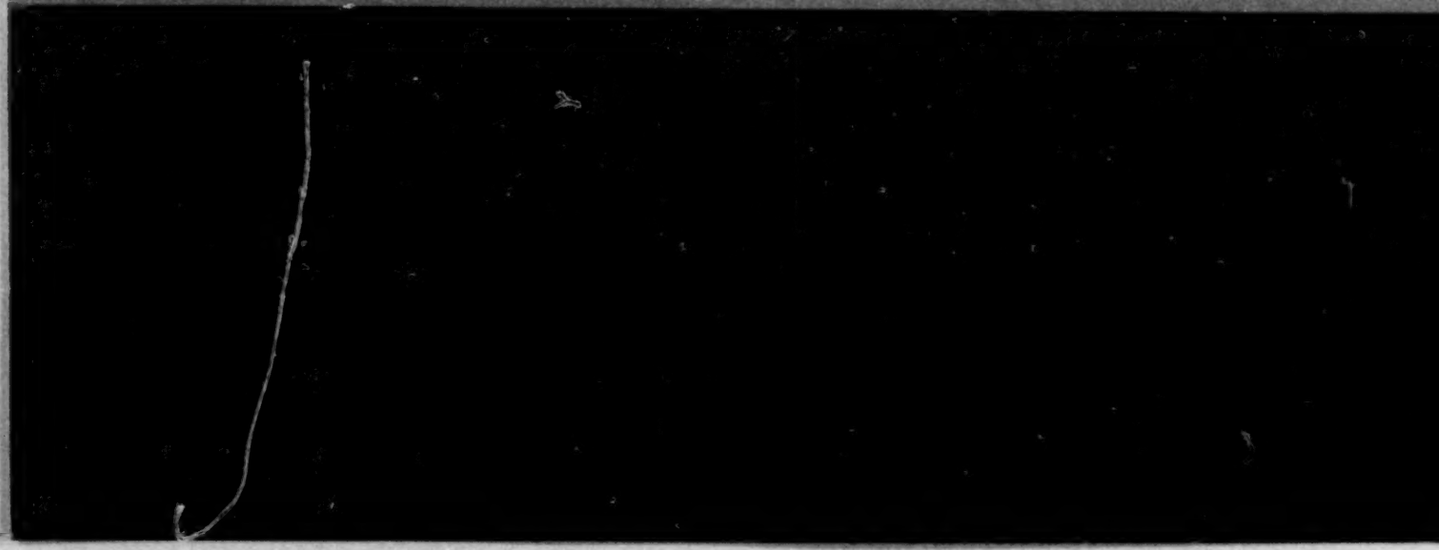
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